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TEXTILFORSCH KREFELD EV \*DT 2538-092  
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Radiation chemical finishing of cellulosic and synthetic fibres - with  
liquor contg. vinyl cpd., sensitiser and solvent reduces exposure

The finishing process esp. provides oleophobic, hydrophilic, soil-repellent, antistatic, low flammability and easy care properties, and involves treating the fibres or textile with a liquor contg. cpd(s). (I) with vinyl gpc. and a sensitiser (II), then subjecting to UV radiation so that (I) adds to the textile, opt. drying and condensing and finally washing. The improvement comprises the use of a liquor contg. a solvent (III) and opt. water, and as (II), a carbonyl cpd. with UV adsorption in the 300-400 nm range. (II) pref. is a benzoin deriv. and is used in a concn. of 0.5-1 g/l.

**ADVANTAGE**

The UV exposure time is short enough to allow the process to be operated continuously.

**PREFERRED**

(II) is benzoin ethyl ether. (I) contains methylol gpc. and pref. is  $\text{CH}_2\text{CH.CO.NH.CH}_2\text{OH}$  (amt. 60 g/l.).  $\text{MgCl}_2$  hydrate (12 g/l.) is added as catalyst and dimethylolurea (40 g/l.)

A(10-E10, 11-C5C, 12-S5M) F(3-C2, 3-C2A, 3-C3)  
pref. is also added. (III) is an alcohol, pref. EtOH, which is mixed with water in 40:60 ratio. The textile is loaded with 20-100% liquor.(10pp016).

3-C4, 3-C5.

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